

09/668,105T139AMENDMENTS TO THE CLAIMSIn the Claims:

Claims 1-5 (Cancelled)

6. (Withdrawn) The scan engine of claim 5, wherein the opening is located in a first wall of the housing, and wherein the first face of the prism is further adapted to cover the opening.

7. (Withdrawn) The scan engine of claim 6, wherein the first face of the prism provides a seal around the opening of the first enclosure wall.

8. (Withdrawn) The scan engine of claim 1, wherein the prism comprises a first planar face generally perpendicular to the first path and a second planar face generally perpendicular to the second path, and wherein the second face is mounted on the aperture.

9. (Withdrawn) The scan engine of claim 8, wherein the first face of the prism is located proximate the opening in the housing.

10. (Withdrawn) The scan engine of claim 9, wherein the opening is located in a first wall of the housing, and wherein the first face of the prism is further adapted to cover the opening.

11. (Withdrawn) The scan engine of claim 10, wherein the first face of the prism provides a seal around the opening of the first enclosure wall.

12. (Withdrawn) The scan engine of claim 1, wherein the prism comprises a first face generally perpendicular to the first path and a second planar face generally perpendicular to the second path, and wherein the second face is mounted on the aperture.

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13. (Withdrawn) The scan engine of claim 12, wherein the first face of the prism has a spherical convex shape, whereby the first face serves as an imaging lens with respect to the received light.

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er* 14. (Withdrawn) The scan engine of claim 1, further comprising a lens mounted within the housing along the first path.

15. (Withdrawn) The scan engine of claim 1, further comprising a lens mounted on the housing along the first path.

16. (Withdrawn) The scan engine of claim 15, wherein the lens is detachable from the housing.

Claims 17-18 (Cancelled)

19. (Withdrawn) The method of claim 18, wherein mounting the second face on the aperture includes adhering at least a portion of the second face of the prism to the aperture using a transparent low loss adhesive.

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21. (Withdrawn) The method of claim 20, further comprising providing a seal around the opening of the first enclosure wall using the first face of the prism.

22. (Withdrawn) A data collection device scan engine image sensor assembly, comprising:

an image sensor having an aperture and being operative to sense light entering the aperture; and

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a prism mounted on the aperture and adapted to receive light along a first path and to provide at least a portion of the received light to the aperture along a second path.

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23. (Withdrawn) The assembly of claim 22, wherein the prism comprises a first planar face generally perpendicular to the first path and a second planar face generally perpendicular to the second path, wherein the first planar face is further adapted to cover an opening in a scan engine housing.

24. (Withdrawn) The assembly of claim 23, wherein the first face of the prism is further adapted to provide a seal around the opening of the scan engine housing

25. (Withdrawn) The assembly of claim 22, wherein the prism comprises a first planar face adapted to receive light along the first path, and a second planar face adhered to the aperture using a low loss transparent adhesive.

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26. (Previously added) A scan engine for use in a data collection device, comprising:
a housing having an opening for receiving light from a scanned dataform;
an image sensor having an aperture, the image sensor being located within the housing and operative to sense light entering the aperture; and
a prism mounted onto the aperture of the image sensor to receive light from the opening along a first path and to provide at least a portion of the received light to the aperture along a second path.

27. (Previously added) The scan engine of claim 26, wherein the second path is at an angle with respect to the first path.

28. (Previously added) The scan engine of claim 26, wherein the second path is perpendicular to the first path.

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29. (Previously added) The scan engine of claim 26, wherein the prism comprises a first planar face generally perpendicular to the first path and a second planar face generally perpendicular to the second path, and wherein the second face is mounted on the aperture of the image sensor.

30. (Previously added) The scan engine of claim 26, wherein the first face of the prism is located proximate the opening in the housing.

31. (Previously added) The scan engine of claim 26, further comprising a lens mounted within the housing along the first path.

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32. (Withdrawn) The scan engine of claim 26, further comprising a lens mounted on the housing along the first path.

33. (Withdrawn) The scan engine of claim 32, wherein the lens is detachable from the housing.

34. (Previously added) The scan engine of claim 26, further comprising a printed circuit board mounted in the housing.

35. (Previously added) The scan engine of claim 34, wherein the image sensor is mounted on the printed circuit board.

36. (Previously added) The scan engine of claim 26, further comprising a window coupled to the opening of the housing, such that the window provides a seal between an interior and an exterior of the housing.

37. (Previously added) The scan engine of claim 26 being employed in a bar code reader.

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38. (Previously added) A method for producing a data collection device scan engine, comprising:

providing a housing with an opening for receiving light from a scanned dataform; mounting an image sensor within the housing, the image sensor having an aperture and being operative to sense light entering the aperture; and

mounting a prism onto the aperture of the image sensor for receiving light from the opening along a first path and providing at least a portion of the received light to the aperture along a second path.

39. (Previously added) The method of claim 38, wherein the prism comprises a first planar face generally perpendicular to the first path and a second planar face generally perpendicular to the second path, the second planar face being mounted on the aperture.

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40. (Currently amended) The method of claim 39 [41], wherein mounting the second face on the aperture includes adhering at least a portion of the second face of the prism to the aperture using a transparent low loss adhesive.

41. (Previously added) The method of claim 38, further comprising mounting a printed circuit board to the housing of the scan engine.

42. (Previously added) The method of claim 38, wherein mounting the image sensor within the housing includes mounting the image sensor to a printed circuit board located in the housing.

43. (Previously added) A data collection device scan engine image sensor assembly, comprising:

an image sensor having an aperture and being operative to sense light entering the aperture; and

a prism mounted on the aperture of the image sensor and adapted to receive light along a first path and to provide at least a portion of the received light to the aperture along a second path.

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44. (Previously added) The assembly of claim 43, wherein the prism comprises a first planar face adapted to receive light along the first path, and a second planar face adhered to the aperture of the image sensor using a low loss transparent adhesive.